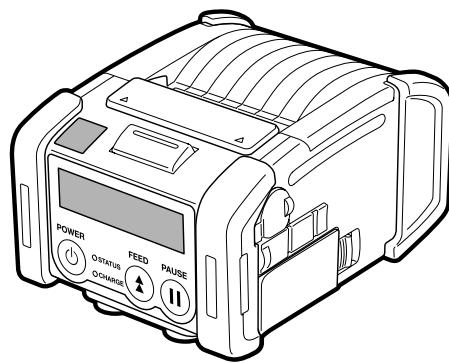


TOSHIBA

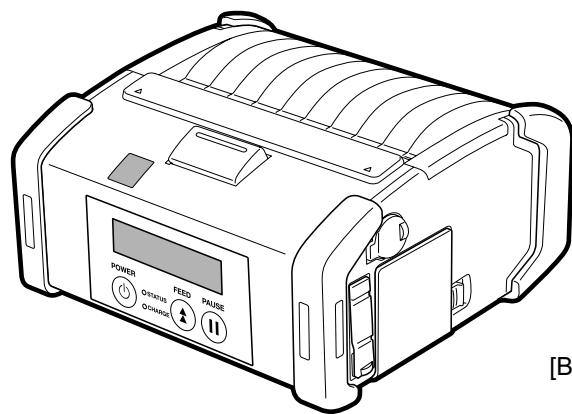
TOSHIBA Portable Printer

B-EP2DL/EP4DL SERIES

Owner's Manual



[B-EP2DL]



[B-EP4DL]

CE Compliance (for EU only)

This product complies with the requirements of EMC and R&TTE Directives including their amendments.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modification not expressly approved by manufacturer for compliance could void the user's authority to operate the equipment.

"This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations."

"Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada."

(for CANADA only)

VORSICHT:

Maschinenlärminformations-Verordnung 3. GPSGV, der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN ISO 7779.

Some types of this product are equipped with a wireless communication device, such as, TEC-BTM-R and SD-Link 11g. Please be sure to read the enclosed Precautions for Handling of Wireless Communication Devices before using this product.

Note:

When you purchase interface cables on the market, shielded cables must be chosen and used.



The following information is for EU-member states only:

Disposal of batteries and/or accumulators

(based on EU-Directive 2006/66/EC,

Directive on batteries and accumulators and waste batteries and accumulators)



The use of the symbol indicates that batteries and/or accumulators may not be disposed as unsorted municipal waste and has to be collected separately.

By ensuring that batteries and/or accumulators are disposed of correctly, you will help prevent potential negative consequences for the environmental and human health, which could otherwise be caused by inappropriate waste handling of this product.

For more detailed information about the take-back and recycling of batteries and/or accumulators, please contact your supplier where you purchased this product.

< For EU Only >

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Rue de la Célidée 33 BE-1080 Brussels

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by TOSHIBA TEC CORPORATION
All Rights Reserved
570 Ohito, Izunokuni-shi, Shizuoka-ken, JAPAN

TOSHIBA TEC CORPORATION

E PRINTED IN INDONESIA
EO1-33079
7FM03281000

<English>

CAUTION!

1. Only use TOSHIBA TEC battery packs designed and manufactured for use with the specific printer model. There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R

2. When an external power source such as an AC adapter is connected to the printer, DO NOT use any device other than an exclusive one.

AC adapter:	B-EP800-AC-QM-R (Model: 0225A1950)
Cigarette lighter adapter:	B-EP802-DC12-QM-R
DC adapter:	B-EP800-DC48-QM-R

<Français>

PRÉCAUTIONS!

1. N'utilisez que les packs batteries Toshiba Tec conçus et fabriqués pour être utilisés avec ce modèle spécifique. Il y a un risque d'explosion si la batterie est remplacée par un modèle non adapté. Veuillez vous débarrasser des batteries usagées en respectant la réglementation.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R

2. Lorsque vous connectez l'imprimante sur un adaptateur secteur externe, N'UTILISEZ PAS d'adaptateur différent de celui préconisé

Adaptateur secteur:	B-EP800-AC-QM-R (Model: 0225A1950)
Adaptateur allume cigare:	B-EP802-DC12-QM-R
Convertisseur continu:	B-EP800-DC48-QM-R

<Deutsch>

Achtung!

1. Benutzen Sie nur den für Ihr Druckmodell bestimmten Akku. Bei Verwendung eines falschen Akkus besteht die Gefahr einer Explosion. Entsorgen Sie den alten Akku gemäß den Vorschriften!

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R

2. Sofern der Drucker den Strom durch eine externe Quelle bezieht, z.B. mit Hilfe eines AC Adapters, benutzen Sie nur den vorgegebenen Adapter.

AC Adapter:	B-EP800-AC-QM-R (Model: 0225A1950)
Batterie-Ladekabel für Zigarettenanzünder:	B-EP802-DC12-QM-R
DC Adapter:	B-EP800-DC48-QM-R

<Español>

ATENCIÓN!

1. Utilice baterías diseñadas y fabricadas por Toshiba Tec específicamente para este modelo. Existe riesgo de explosión si se usa un tipo de batería incorrecto. Deshágase de las baterías usadas según las instrucciones.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R

2. Cuando conecte un alimentador externo a la impresora, como por ejemplo un adaptador AC, NO USE ningú dispositivo diferente al modelo exclusivo de cada impresora.

Adaptador AC:	B-EP800-AC-QM-R (Model: 0225A1950)
Adaptador para mechero:	B-EP802-DC12-QM-R
Adaptador DC:	B-EP800-DC48-QM-R

<Nederlands>

WAARSCHUWING!

1. Gebruik enkel de batterijeenheid die overeenstemt met de desbetreffende printer. Vervanging door een verkeerd type batterij kan een ontploffing veroorzaken. Dank uw batterijen af zoals voorgeschreven.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R

2. Gebruik uitsluitend onderstaande wisselstroomadapter om de printer aan te sluiten met een externe voeding:

AC adapter:	B-EP800-AC-QM-R (Model: 0225A1950)
Sigarettenaansteker adapter:	B-EP802-DC12-QM-R
DC adapter:	B-EP800-DC48-QM-R

<Italiano>

ATTENZIONE!

1. Utilizzare il pacco batterie corretto per ogni modello di stampante. Esiste il rischio di esplosione se utilizzate le batterie sbagliate. Smaltite le batterie secondo le istruzioni.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R	B-EP804-BT-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R	
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R	

2. Qualora la stampante sia collegata ad una alimentazione esterna, esempio la presa in corrente alternata, utilizzate esclusivamente l'adattatore corretto:

Adattatore AC: B-EP800-AC-QM-R (Model: 0225A1950)

Adattatore per accendisigaro per automezzi: B-EP802-DC12-QM-R

Adattatore DC: B-EP800-DC48-QM-R

< Português >

ATENÇÃO!

1. Utilize as baterias desenhadas e fabricadas pela Toshiba Tec especificamente para este modelo. Existe risco de explosão se for utilizado um tipo de bateria incorrecta. Desfaça-se das baterias usadas de acordo com as instruções.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R	B-EP804-BT-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R	
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R	

2. Ao conectar uma impressora à alimentação externa, como por exemplo a um adaptador AC, NÃO UTILIZE nenhum dispositivo diferente do modelo exclusivo para cada impressora.

Adaptador AC: B-EP800-AC-QM-R (Model: 0225A1950)

Adaptador para isqueiro: B-EP802-DC12-QM-R

Adaptador DC: B-EP800-DC48-QM-R

< Polski >

UWAGA!

1. Należy używać wyłącznie zastawów baterii zaprojektowanych i wyprodukowanych dla konkretnego modelu drukarki. Wymiana baterii na baterię innego typu grozi wybuchem. Należy utylizować baterie zgodnie z podanymi instrukcjami.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R	B-EP804-BT-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R	
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R	

2. W przypadku używania zewnętrznego źródła zasilania drukarki np. zasilacza AC, NIE NALEŻY używać innego urządzenia poza wyspecyfikowanym.

Zasilacz AC: B-EP800-AC-QM-R (Model: 0225A1950)

Zasilacz samochodowy: B-EP802-DC12-QM-R

Zasilacz DC: B-EP800-DC48-QM-R

< 한국어 >

주의!

1. 배터리 팩은 본기기의 전용품을 사용 해 주십시오. 다른 배터리를 사용하면 폭발의 위험이 있습니다. 사용이 끝난 배터리는 설명서에 따라 처리해 주십시오.

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R	B-EP804-BT-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R	
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R	

2. 본기기에 AC 어댑터 등의 외부 전원을 접속하는 경우, 반드시 본기기 전용품을 사용 해 주십시오. 본기기 전용품 이외는 접속 하지 말아 주십시오.

AC 어댑터: B-EP800-AC-QM-R (Model: 0225A1950)

시가 라이터 어댑터: B-EP802-DC12-QM-R

DC 어댑터: B-EP800-DC48-QM-R

< 中文 (繁體字) >

注意!

1. 套裝充電池只適用与本機專用品。更換不適當形式的電池時，持有爆發的危險性。使用過後的電池，請按照說明書處理。

B-EP2DL-GH20-QM-R	B-EP802-BT-QM-R	B-EP4DL-GH20-QM-R	B-EP804-BT-QM-R
B-EP2DL-GH30-QM-R		B-EP4DL-GH30-QM-R	
B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R	

2. 聯接本機的AC電源供應器等外部電源時，只適用与本機的專用品。請勿聯接本機專用品之外任何產品。

AC 電源供應器: B-EP800-AC-QM-R (Model: 0225A1950)

點烟機電源供應器: B-EP802-DC12-QM-R

DC 電源供應器: B-EP800-DC48-QM-R

English

The following information is for EU-member states only:

Disposal of products

(based on EU-Directive 2002/96/EC,

Directive on Waste electrical and electronic equipment – WEEE)



The use of the symbol indicates that this product may not be disposed as unsorted municipal waste and has to be collected separately. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centers.

The black bar indicates that the product was placed on the market after August 13, 2005.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environmental and human health, which could otherwise be caused by inappropriate waste handling of this product.

For more detailed information about the take-back and recycling of this product, please contact your supplier where you purchased this product.

Franaçis

Les informations suivantes ne concernent que les utilisateurs des pays membres de l'union Européenne :

Recyclage des produits

(Basé sur la directive Européenne 2002/96/EC,

Directive sur le recyclage des équipements électriques et électroniques – REEE – WEEE)



L'utilisation de ce symbole indique que ce produit ne doit pas être jeté sans tri préalable, comme un déchet classique, mais doit être collecté séparément. Les batteries et accumulateurs intégrés peuvent être laissés en place, ils seront récupérés par le centre de recyclage.

La barre noire indique que ce produit a été mis sur le marché après le 13 Août 2005.

En vous assurant que ce produit est correctement mis au rebut, vous participerez à prévenir les éventuelles conséquences néfastes sur l'environnement et la santé publique qui pourraient autrement être causés par une gestion inappropriée des déchets contenus dans ce produit.

Pour obtenir des informations complémentaires sur la récupération et le recyclage de ce produit, veuillez contacter le fournisseur auprès duquel vous en avez fait l'acquisition.

Deutsch

Wiederverwertungsinformationen für Verbraucher:

(gemäß EU-Directive 2002/96/EC,

Gesetz über das Inverkehrbringen, die Rücknahme und die umweltverträgliche Entsorgung von Elektro- und Elektronikgeräten [ElektroG] – WEEE).



Die folgenden Informationen gelten nur für EU-Mitgliedsstaaten.

Das durchgestrichene Mülltonnensymbol weist darauf hin, dass dieses Produkt nicht wie allgemeiner Hausmüll behandelt werden darf. Verbaute Batterien oder Akkus müssen vorher entnommen und separat entsorgt werden.

Der schwarze Balken unter dem Symbol besagt, dass das Produkt nach dem 13. August 2005 in Verkehr gebracht wurde.

Indem Sie aktiv mit helfen, dieses Produkt ordnungsgemäß zu entsorgen, helfen Sie mit möglichen negativen Auswirkungen auf die Umwelt sowie die menschliche Gesundheit zu vermeiden.

Für nähere Informationen zur Rücknahme und Wiederverwertung dieses Produktes wenden Sie sich bitte an Ihren Lieferanten.

Español

La siguiente información solo concierne a los Estados Miembros de la UE:

Desechado de los productos

(basado en la Directiva Europea 2002/96/EC,

Directiva sobre Residuos de equipos eléctricos y electrónicos – REEE – WEEE)



El uso de este símbolo indica que el producto no puede ser desecharo como basura común doméstica por lo que debe ser recogido de forma separada. Sus baterías y acumuladores integrados pueden eliminarse junto con el aparato. Estos elementos serán separados en los centros de reciclado.

La barra negra indica que el producto fue puesto en el Mercado después del 13 de Agosto de 2005.

Asegurando que nos deshacemos del producto de forma correcta, ayudaremos a evitar potenciales consecuencias negativas tanto para el medio ambiente como para la salud pública, que podrían producirse debido a un tratamiento inapropiado.

Para obtener información más detallada sobre la recogida y reciclaje de su producto, por favor, póngase en contacto con el proveedor que se lo suministró.

Nederlands

Onderstaande informatie geldt enkel in EU lidstaten:

Het afdanken van producten (volgens EU-richtlijn 2002/96/EC,

Richtlijn betreffende afgedankte elektrische en elektronische apparatuur – WEEE)



Dit symbool geeft aan dat dit product niet mag afgedankt worden als algemeen huishoudelijk afval. Het dient afzonderlijk gecollecteerd te worden. Geïntegreerde batterijen of laders kunnen samen met dit product afgedankt worden. Zij worden in het recyclagecentrum gescheiden. De zwarte balk geeft aan dat dit product na 13 augustus 2005 verhandeld werd.

Door een aangepaste afdanking van dit product beschermt u het milieu en de volksgezondheid tegen mogelijke schadelijke gevolgen, die anders zouden kunnen voortvloeien uit het onjuist verwerken van de resten van dit product. Vraag inlichtingen over de terugname en recyclage van dit product aan uw leverancier.

Italiano

Le seguenti informazioni sono solo gli stati membri della UE:

Smaltimento del prodotto

(basato sulla direttiva EU-Directive 2002/96/EC,

Direttiva sullo smaltimento per il Riciclaggio delle Apparecchiature Elettriche ed Elettroniche – RAEE – WEEE)



Questo simbolo indica che i prodotti non possono essere smaltiti come rifiuti urbani non differenziati ma devono essere raccolti separatamente. Eventuali batterie o accumulatori possono essere smaltiti con il prodotto. Verranno separati dai centri di riciclaggio

La barra nera indica che il prodotto è stato inserito nel mercato dopo il 13 Agosto 2005

Assicuratevi che questo prodotto sia smaltito correttamente, contribuirete a prevenire potenziali conseguenze negative per l'ambiente e la salute umana, che potrebbero essere altrimenti causate da uno smaltimento improprio di questo prodotto.

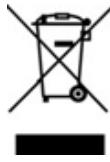
Per maggiori dettagli sul riciclo, o su come rendere il prodotto, contattate il vostro fornitore.

Português

A informação que se segue é apenas dirigida a países membros da UE:

Reciclagem de produtos (baseado na directive-UE 2002/96/EC,

Directiva sobre a reciclagem de resíduos de equipamentos eléctricos e electrónicos – REEE – WEEE)



O uso deste símbolo indica que este produto não pode ser colocado nos pontos de recolha de lixo comum e deve ser recolhido separadamente. As baterias integradas e acumuladores podem ser entregues juntamente com o produto. Serão depois separados nos centros de reciclagem.

A barra negra indica que o equipamento foi colocado no mercado após 13 de Agosto de 2005.

Ao assegurar-se que este produto é tratado correctamente está a ajudar a prevenir potenciais consequências negativas para o ambiente e para a saúde humana, que poderiam ser causadas pelo inapropriado tratamento deste produto.

Para mais informação sobre a reciclagem e tratamento deste produto, contacte o seu fornecedor.

Polski

Informacje dla Państw członkowskich Unii Europejskiej:

Utylizacja urządzeń

(na podstawie dyrektywy Unii Europejskiej 2002/96/EC,

Dyrektywa dotycząca odpadów elektrycznych i elektronicznych – WEEE)



Użycie symbolu oznacza, że urządzenie nie może być traktowane jako niesegregowane odpady i musi być zebrane oddzielnie. Zintegrowane baterie i akumulatory mogą być utylizowane razem z urządzeniem. Zostały one posegregowane w centrach utylizacji.

Czarny prostokąt oznacza, że urządzenie zostało wprowadzone na rynek po 13 sierpnia 2005.

Poprzez zastosowanie się do prawidłowych procedur utylizacji tego urządzenia, pomożecie Państwu ograniczyć potencjalne negatywne skutki dla środowiska i zdrowia ludzkiego, które mogłyby zaistnieć na skutek niewłaściwej utylizacji tego urządzenia.

W celu uzyskania dodatkowych informacji odnośnie zwrotu i utylizacji tego urządzenia prosimy o kontakt z punktem zakupu tego urządzenia.

Precautions for Handling of Wireless Communication Devices

Bluetooth® Module: TEC-BTM-R (GH30 model)

Wireless LAN Module: SD-Link 11g (GH40 model)

Trade Mark

Bluetooth is a registered trademark owned by Bluetooth SIG, Inc. and used by TOSHIBA TEC CORPORATION under license.

Cautions

General

For all countries and areas

This product is a wireless communication device, and the use of this product is restricted to the following countries or areas. If the product is used in the countries or areas other than the following, you may be punished according to the laws of those countries or areas.

Japan, USA, Canada, Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom, Switzerland, Norway, Iceland, Liechtenstein,

Australia, New Zealand, Mexico, China, Republic of Korea, Taiwan

For Europe

CE 0682 for Bluetooth **CE 0560 ①** for wireless LAN

Hereby, TOSHIBA TEC CORPORATION, declares that the TEC-BTM-R and SD-Link11g are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. This equipment uses a radio frequency band that has not been harmonized throughout all EU and EFTA countries, and can be used EU and EFTA countries.

For USA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modification not expressly approved by manufacturer for compliance could void the user's authority to operate the equipment.

For Canada

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment that is installed outdoors is subject to licensing.

For safety

Do not use this product in locations where use may be forbidden, for example, in an aeroplane or a hospital. If you do not know the forbidden areas, please refer to and follow the airline company or medical institution guidelines.

Flight instrument or medical equipment may be affected, causing a serious accident.

Since this product uses extremely low power compared with mobile phones, it cannot possibly interfere with pacemakers and defibrillators. However, if the use of this product should be likely to have affected the pacemaker or defibrillator, immediately stop using the product and contact your TOSHIBA TEC sales agent.

Do not disassemble, modify, or repair the product. Doing so may cause injury. Also, modification is against the Laws and Regulations for Radio Equipment. Please ask your TOSHIBA TEC sales agent for repair.

Precaution in use

This product communicates with other devices by radio. Depending on the installation location, orientation, environment, etc., its communication performance may deteriorate or devices installed near by may be affected.

Keep away from a microwave.

Communication performance may deteriorate or a communication error may occur due to the radio emitted from a microwave.

Since the Bluetooth and wireless LAN use the same radio frequency band, each radio wave may interfere with each other when they are used at the same time, causing a deterioration of communication performance or a disconnection of network. If there is any problem with connection, please stop using either Bluetooth or wireless LAN.

Do not use the product on a metal table or near a metal object.

Communication performance may be deteriorated.

TEC-BTM-R Specification

- Bluetooth class 2
- Built-in protocol stack activated by Bluetooth V1.2 serial port profile
- Operating temperature: -5 to 50°C 25% to 85%RH (No condensation)
- Dimensions: 38.1 mm (W) x 25.4 mm (H) x 7 mm (D)

SD-Link 11g Specification

- Built-in IEEE802 Part 11b/g (802.11b/g)
- Operating temperature: 0 to 50°C 25% to 85%RH (No condensation)
- Dimensions: 47.0 mm (W) x 24.0 mm (H) x 4.7 mm (D)

CAUTION!

1. To avoid injury, be careful not to catch or jam your fingers while opening or closing the cover.

2. Do not touch moving parts. To reduce the risk that fingers, jewellery, clothing, etc., be drawn into the moving parts, turn off the power switch to stop movement.

Safety Summary

Personal safety in handling or maintaining the equipment is extremely important. Warnings and Cautions necessary for safe handling are included in this manual. All warnings and cautions contained in this manual and written inside or outside of the printer should be read and understood before handling or maintaining the equipment.

Do not attempt to effect repairs to this equipment. If a fault occurs that cannot be rectified using the procedures described in this manual, turn off the power, then contact your authorised TOSHIBA TEC representative for assistance.

Safety Precautions

This Owner's Manual and the products (machines) which you have purchased contain indications which should be observed in order to use the machines safely and prevent harm to yourself and others and damage to property. The meanings of these indications and symbols are given below.

Read these indications and become familiar with their contents before reading this Owner's Manual.

Precautions

The following precautions will help to ensure that this machine will continue to function correctly.

- (1) Try to avoid locations that have the following adverse conditions:
 - *Temperatures out of the specification
 - *High Humidity
 - *Direct sunlight
 - *Excessive vibration
- (2) The cover should be cleaned by wiping with a dry cloth or a cloth slightly dampened with a mild detergent solution. NEVER USE THINNER OR ANY OTHER VOLATILE SOLVENT on the plastic covers.
- (3) USE ONLY TOSHIBA TEC SPECIFIED media.
- (4) DO NOT STORE the media where it might be exposed to direct sunlight, high temperatures, high humidity, dust, or gas.
- (5) Any data stored in the memory of the printer could be lost during a printer fault.
- (6) DO NOT open the top cover and battery cover during operation. Doing so will stop printer operation.
- (7) DO NOT scratch the surface of printed labels or receipt with a sharp object.
- (8) Be sure to use a shielded interface cable.

CAUTION!

1. This manual may not be copied in whole or in part without the prior written permission of TOSHIBA TEC.

2. The contents of this manual may be changed without notification.

3. Please refer to your local Authorised Service representative with regard to any queries you may have in this manual.

**WARNING**

This indicates that there is the risk of death or serious injury if the machines are handled improperly or contrary to this indication.

- If water or any other liquid enters the machine, turn off the power. Continuous use of the machine under such conditions may cause fire or electric shock.
- If the enclosure is damaged when dropped or subject to shock, turn off the power. Continuous use of the machine under such conditions may cause fire or electric shock.
- Avoid continuous exposure to direct sunlight or high temperature as this may cause fire.
- Do not remove covers or modify the machine by yourself. Doing so may cause fire or electric shock.
- Avoid water, operation with wet hands or cleaning with a moistened cloth. Failure to do this may cause fire or electric shock.
- Do not wipe the machine with a cloth moistened with thinner or other volatile solvent as this may cause fire or electric shock.
- Use the specified battery only. Failure to do this may cause fire or electric shock.
- Danger of explosion if the battery is incorrectly replaced. Replace the battery only with TOSHIBA TEC Corporation, Battery Pack Model B-EP802-BT-QM-R 7.4V 2600mAh Li-ion or B-EP804-BT-QM-R 14.8V 2600mAh Li-ion. Discard used batteries according to the manufacturer's instruction.
- Do not disassemble and modify the battery because it has a protection unit in it. Doing so may break the protection unit, causing the battery to heat up, burst or burn.
- If the battery gets wet, dry it completely. Using a wet battery may cause fire or electric shock.
- Be aware of the following precautions when using batteries. Otherwise they could heat up, burst or burn.
 - Do not throw the battery into fire or heat it with a microwave or oven, etc.
 - Do not load the battery with the electrodes reversed.
 - Do not connect the electrodes with metal objects like wire. Do not carry or store the battery along with metal objects such as necklaces, hairpins, etc.
 - Do not stick a needle into, hammer, step on, or drop the battery.
 - Do not solder the battery.
 - Do not leave the battery where the temperature is more than 50°centigrade, such as inside a car or in direct sunlight.

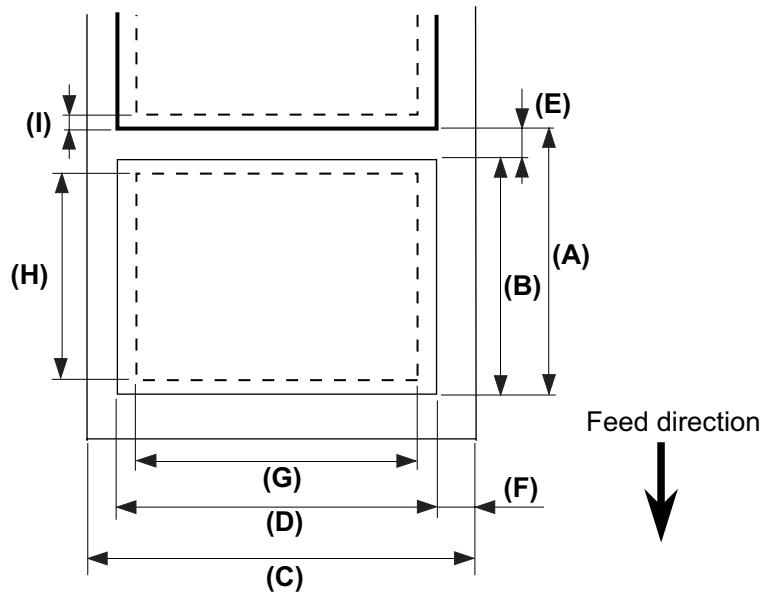
**CAUTION**

This indicates that there is the risk of personal injury or damage to objects if the machines are improperly handled contrary to this indication.

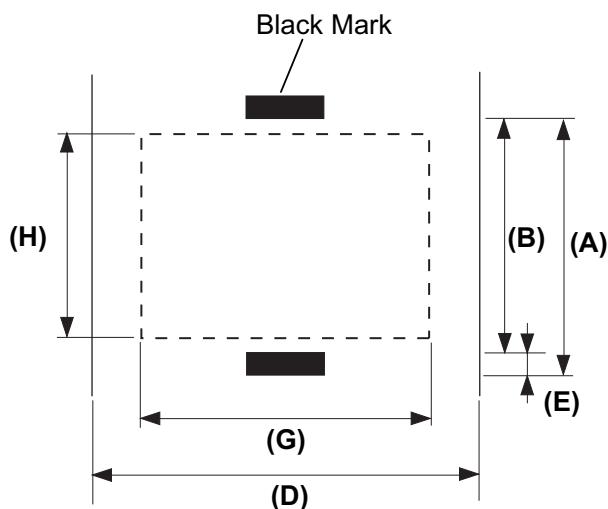
- Keep away from flame or other sources of heat. Failure to do this may cause fire or machine failure.
- Do not drop or shock the machine as this may cause machine failure.
- During lightning, turn off and keep away from the machine because of danger of electric shock and machine failure.
- Avoid locations subject to rapid change in temperature as this causes condensation, causing electric shock or machine failure.
- Do not damage the print head, platen or strip roller with a sharp object. Doing so may cause machine failure.
- Do not touch or contact the print head element with a hard object. Doing so may cause machine failure.
- Use the specified media only. Failure to do this may cause machine failure.
- Be sure to turn off the machine before replacing the battery, or machine failure may occur.
- Do not charge the battery near flame or under direct sunlight. High temperature may activate or damage the protection unit of the battery, disabling the electric charge or causing it to overheat, burst, or burn.
- Unload the battery when the machine will not be used for a longtime. Failure to do this may cause machine failure.
- Keep the battery away from flame, a heat source or other locations subject to high temperature. Failure to do this may cause it to over heat or burn.
- Do not force the battery into the machine or battery charger. Doing so may cause the battery to overheat, burst or burn. Check for the correct electrode.
- Do not connect the battery to a power outlet or a car cigarette lighter jack as this may cause the battery to overheat, burst or burn.
- Because the B-EP802-BT-QM-R and the B-EP804-BT-QM-R Series battery is exclusively for the B-EP2DL and the B-EP4DL Series printer, respectively, do not use the battery in other machines. Doing so may damage the battery or affect the performance and life of the battery.

Media Specification

■ Label



■ Tag/Receipt



B-EP2DL Series

(Unit: mm)

Item	Media	Label		Tag/Receipt	Receipt		
		Batch mode	Strip mode	With black mark	No black mark		
(A) Label/Receipt pitch	10.0 - 999.9	13.0 - 67.0	10.0 - 999.9	---	---		
(B) Label/Receipt length	7.0 - 997.0	10.0 - 60.0	7.0 - 997.0	---	---		
(C) Backing paper width	26.0 - 58.0		---				
(D) Media width	24.0 - 56.0		24.0 - 58.0				
(E) Gap/black mark length	3.0 - 7.0		3.0 - 7.0	---			
(F) Vertical gap	1.0 - 7.0		---				
(G) Effective print width	48.0						
(H) Effective print length	7.0 - 995.0	8.0 - 58.0	7.0 - 995.0	---			
(I) Top and bottom margin	Min. 1.0			---			
Outer roll diameter	Φ60 (max.)						
Roll direction	Outside						

NOTE:

Do not use the media other than the above to ensure print quality and print head life.

B-EP4DL Series

(Unit: mm)

Item	Media	Label		Tag/Receipt	Receipt		
		Batch mode	Strip mode	With black mark	No black mark		
(A) Label/Receipt pitch	10.0 - 999.9	13.0 - 67.0	10.0 - 999.9	---	---		
(B) Label/Receipt length	7.0 - 997.0	10.0 - 60.0	7.0 - 997.0	---	---		
(C) Backing paper width	50.0 - 115.0		---				
(D) Media width	48.0 - 113.0		50.0 - 115.0				
(E) Gap/black mark length	3.0 - 7.0		3.0 - 7.0	---			
(F) Vertical gap	1.0 - 7.0		---				
(G) Effective print width	104.0						
(H) Effective print length	7.0 - 995.0	8.0 - 58.0	7.0 - 995.0	---			
(I) Top and bottom margin	Min. 1.0			---			
Outer roll diameter	Φ68 (max.)						
Roll direction	Outside						

NOTE:

Do not use the media other than the above to ensure print quality and print head life.

CARE/HANDLING OF THE MEDIA

CAUTION!

Be sure to read carefully and understand the Supply Manual. Use only media that meets specified requirements. Use of non-specified media may shorten the head life and result in problems with bar code readability or print quality. All media should be handled with care to avoid any damage to the media or printer. Read the following guideline carefully.

- Do not store the media for longer than the manufacturer's recommended shelf life.
- Store media rolls on the flat end, do not store them on the curved sides as this might flatten that side causing erratic media advance and poor print quality.
- Store the media in plastic bags and always reseal after opening. Unprotected media can get dirty and the extra abrasion from the dust and dirt particles will shorten the print head life.
- Store the media in a cool, dry place. Avoid areas where they would be exposed to direct sunlight, high temperature, high humidity, dust or gas.
- The thermal paper used for direct thermal printing must not have specifications which exceed Ca++ 800 ppm, Na+ 800 ppm, K+ 800 ppm and Cl- 600 ppm.
- Some ink used on pre-printed labels may contain components which shorten the print head's product life. Do not use labels pre-printed with ink which contains hard substances such as carbonic calcium (CaCO3) and kaolin (Al2O3, 2SiO2, 2H2O).

For further information please contact your local distributor or your media manufacturer.

Printer Specification

B-EP2DL Series

Model	B-EP2DL-GH20-QM-R	B-EP2DL-GH30-QM-R	B-EP2DL-GH40-QM-R
Driving power source	Lithium ion battery 7.4V 2600mAh(Nominal value) (Battery pack model name: B-EP802-BT-QM-R)		
Printable count	Approx.100m/Full charge (It depends on the operating environment, print conditions, battery condition, etc.)		
Life cycle	300 cycles		
Print method	Direct thermal		
Resolution	8 dots/mm(203 dpi)		
Print speed	Max. 105.0 mm/sec. (It depends on the operating environment, print conditions, battery condition, etc.)		
Issue mode	Peel-off/Batch		
Effective print width	Max. 48.0mm		
Font	<p>[Bitmap Font] Times Roman, Helvetica, Presentation, Letter Gothic, Prestige Elite, Courier, OCR-A, OCR-B, GOTHIC725Black, Standard character, Bold character, Price font1, Price font 2, Chinese character, Writable character</p> <p>[Outline font] Helvetica (w/wo Proportional), Price font 1, Price font 3, Price font 3</p>		
Bar code	JAN8/EAN8, JAN13/EAN13, UPC-A/E, CODE39, CODE93, CODE128/EAN128, MSI, NW-7, ITF, Customer bar code, GS1 Databar (Omnidirectional/Truncated/Stacked/Stacked Omnidirectional/Limited/Expanded/Expanded Stacked)		
2-dimensional code	QR code, Data Matrix, PDF417, Maxicode, MicroPDF417		
Media detection sensor	Transmissive/Reflective/Peel-off		
Interface			
IrDA (IrDA V1.2 Low Power)	○	○	○
USB (V2.0)	○	○	○
Serial (RS-232C)	○	---	---
Bluetooth(V1.2)	---	○	---
Wireless LAN (IEEE802.11b/g)	---	---	○
Operating temperature	-15°C to 50°C (During battery charge: 0°C to 40°C/LCD display: 0°C to 50°C)	-5°C to 50°C	0°C to 50°C
Operating humidity	10%RH to 90%RH (No condensation)		
Storage temperature	-25°C to 60°C		
Storage humidity	10%RH to 90%RH (No condensation)		
Dimensions (Unit: mm)	88.0 (W) x 119.0 (L) x 65.0 (D) (Excluding the projecting parts.)		
Weight	Approx. 480 g (Battery pack included, media and other accessories excluded.)		
Accessories	Battery pack x 1, Print head cleaner x 1, Belt clip x 1, Belt clip mounting screw x 2, Ferrite Core x 1, Owner's Manual x 1 BD Address Label x 2 (GH30 only)		
Option	Single-slot battery charger (B-EP800-CHG-QM-R), 6-slot battery charger (B-EP800-CHG6-QM-R), AC adapter (B-EP800-AC-QM-R), Cigarette lighter adapter (B-EP802-DC12-QM-R), DC adapter (B-EP800-DC48-QM-R), Battery pack (B-EP802-BT-QM-R), Linerless Label kit (B-EP902-LL-QM-R), Shoulder strap (B-EP900-SS-QM-R), Carry case (B-EP902-CC-QM-R)		

Supplement

Specification of this printer may be changed without prior notice.

B-EP4DL Series

Model	B-EP4DL-GH20-QM-R	B-EP4DL-GH30-QM-R	B-EP4DL-GH40-QM-R
Driving power source	Lithium ion battery 14.8V, 2600mAh (Nominal value) (Batter pack model name: B-EP804-BT-QM-R)		
Printable count	Approx.100m/Full charge (It depends on the operating environment, print conditions, battery condition, etc.)		
Life cycle	300 cycles		
Print method	Direct thermal		
Resolution	8 dots/mm (203 dpi)		
Print speed	Max. 105.0 mm/sec. (It depends on the operating environment, print conditions, battery condition, etc.)		
Issue mode	Peel-off/Batch		
Effective print width	Max. 104.0 mm		
Font	<p>[Bitmap Font] Times Roman, Helvetica, Presentation, Letter Gothic, Prestige Elite, Courier, OCR-A, OCR-B, GOTHIC725 Black, Standard character, Bold character, Price font 1, Price font 2, Chinese character, Writable character</p> <p>[Outline font] Helvetica (w/wo proportional), Price font 1, Price font 2, Price font 3</p>		
Bar code	JAN8/EAN8, JAN13/EAN13, UPC-A/E, CODE39, CODE93, CODE128/EAN128, MSI, NW-7, ITF, Customer bar code, GS1 Databar (Omnidirectional/Truncated/Stacked/Stacked Omnidirectional/Limited/ Expanded/Expanded Stacked)		
2-dimensional code	QR code, Data Matrix, PDF417, Maxicode, MicroPDF417		
Media detection sensor	Transmissive/Reflective/Peel-off		
Interface			
IrDA (IrDA V1.2 Low power)	○	○	○
USB (V2.0)	○	○	○
RS-232C	○	---	---
Bluetooth (V1.2)	---	○	---
Wireless LAN (IEEE802.11b/g)	---	---	○
Operating temperature	-15°C to 50°C (During battery charge: 0°C to 40°C/LCD display: 0°C to 50°C)	-5°C to 50°C	0°C to 50°C
Operating humidity	10%RH to 90%RH (No condensation)		
Storage temperature	-25°C to 60°C		
Storage humidity	10%RH to 90%RH (No condensation)		
Dimensions (Unit: mm)	150.0 (W) x 145.0 (L) x 75.0 (D) (Excluding the projecting parts.)		
Weight	Approx. 860 g (Battery pack included, media and other accessories excluded.)		
Accessories	Battery pack x1, Print head cleaner x 1, Belt clip x1, Belt clip mounting screw x 2, Ferrite Core x 1, Owner's Manual x 1 BD Address Label x 2 (GH30 only)		
Option	Single-slot battery charger (B-EP800-CHG-QM-R), 6-slot battery charger (B-EP800-CHG6-QM-R), AC adapter (B-EP800-AC-QM-R), DC adapter (B-EP800-DC48-QM-R), Battery pack (B-EP804-BT-QM-R), Linerless label kit (B-EP904-LL-QM-R), Shoulder strap (B-EP900-SS-QM-R), Carry case (B-EP904-CC-QM-R)		

Supplement

Specification of this printer may be changed without prior notice.

Daily maintenance

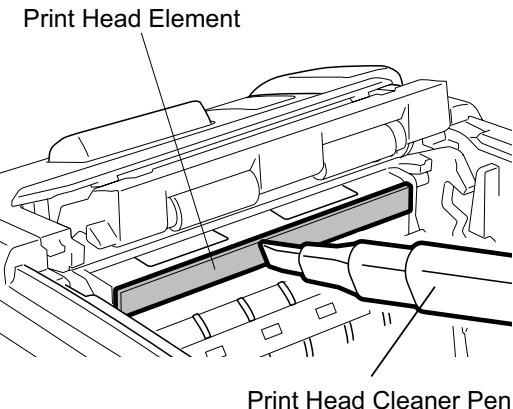
To help retain the high quality and performance of your printer, it should be cleaned regularly.

CAUTION!

- *DO NOT USE a sharp object to clean the print head or various rollers, as this may cause a print failure or breakdown of the printer.*
- *NEVER USE any volatile solvent including thinner and benzene, as this may cause a print failure or breakdown of the printer.*
- *Do not touch the print head element with bare hands, as static may damage the print head.*

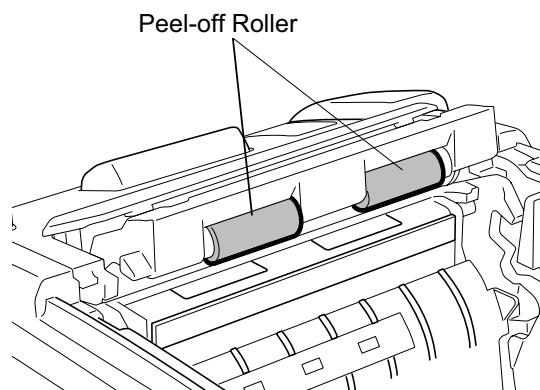
■ Print head

Wipe the print head element with a supplied print head cleaner pen.



■ Peel-off Roller

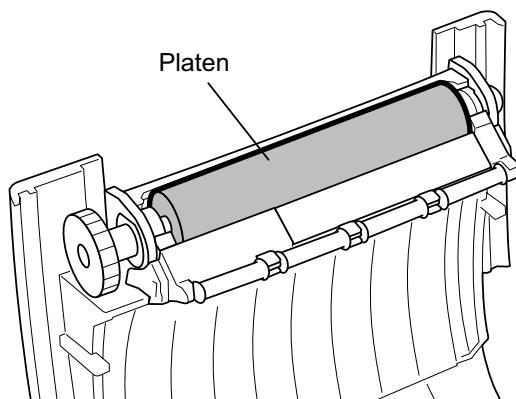
Wipe clean the Peel-off Roller with a soft cloth slightly moistened with absolute ethyl alcohol while rotating the rollers.



■ Platen

Wipe clean the platen with a soft cloth slightly moistened with absolute ethyl alcohol, while rotating the platen.

Clean the platen of the linerless label kit in the same way. Cleaning should be performed each time one or two media rolls are used up.

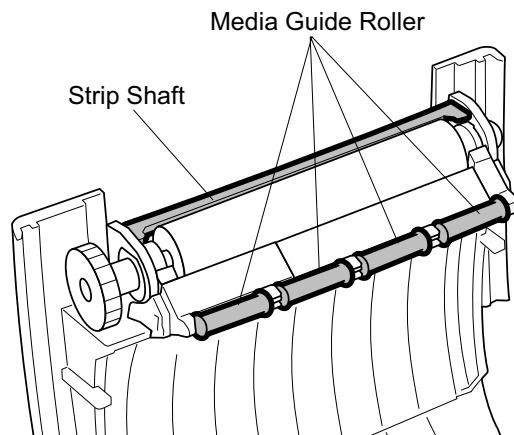


■ Media Guide Roller and Strip Shaft

Wipe clean the Media Guide Rollers with a soft cloth moistened with absolute ethyl alcohol while rotating the rollers.

Wipe clean the strip shaft with a soft cloth slightly moistened with absolute ethyl alcohol.

Clean the strip shaft of the linerless label kit in the same way. Cleaning should be performed each time one or two media rolls are used up

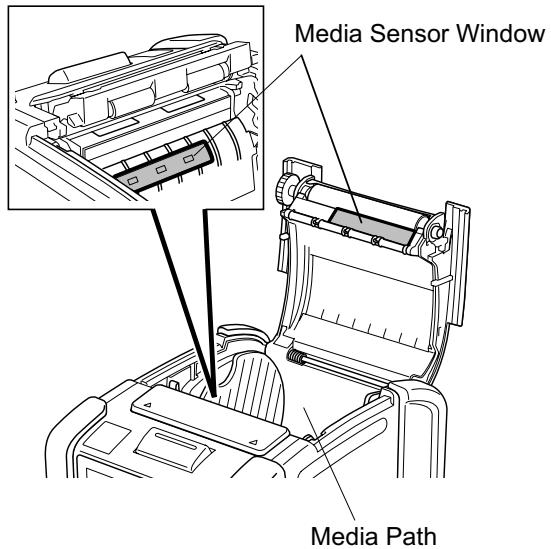


■ Media Sensor Window and Media Path

Remove dust or dirt from the Media Sensor Window with a commercially available soft, dry brush.

Wipe clean the Media Path with a soft dry cloth.

When linerless labels are used, wipe off dirt of residual glues from the Media Guides each time one or two media rolls are used up.

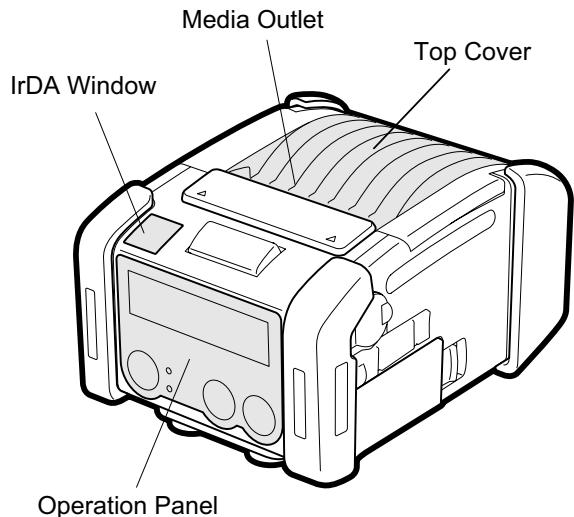


■ Top Cover, Operation panel, and IrDA Window

Wipe clean the cover, operation panel, and IrDA window with a soft dry cloth slightly moistened with absolute ethyl alcohol.

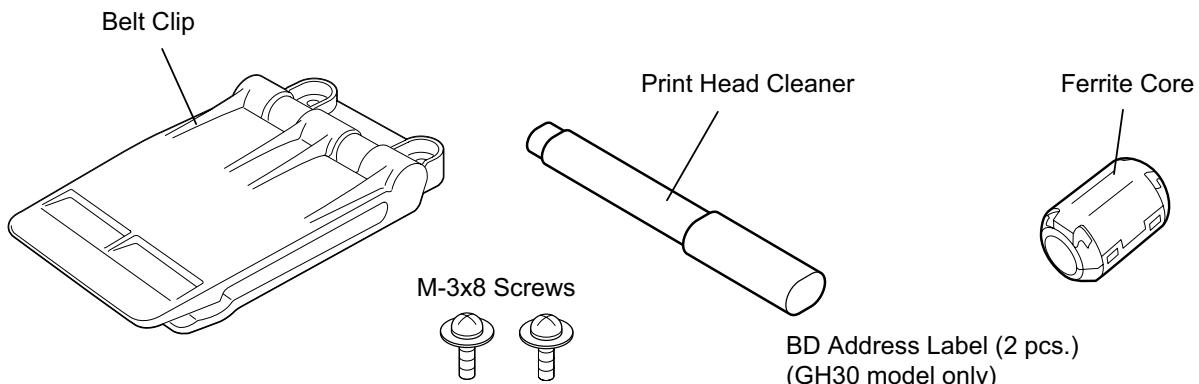
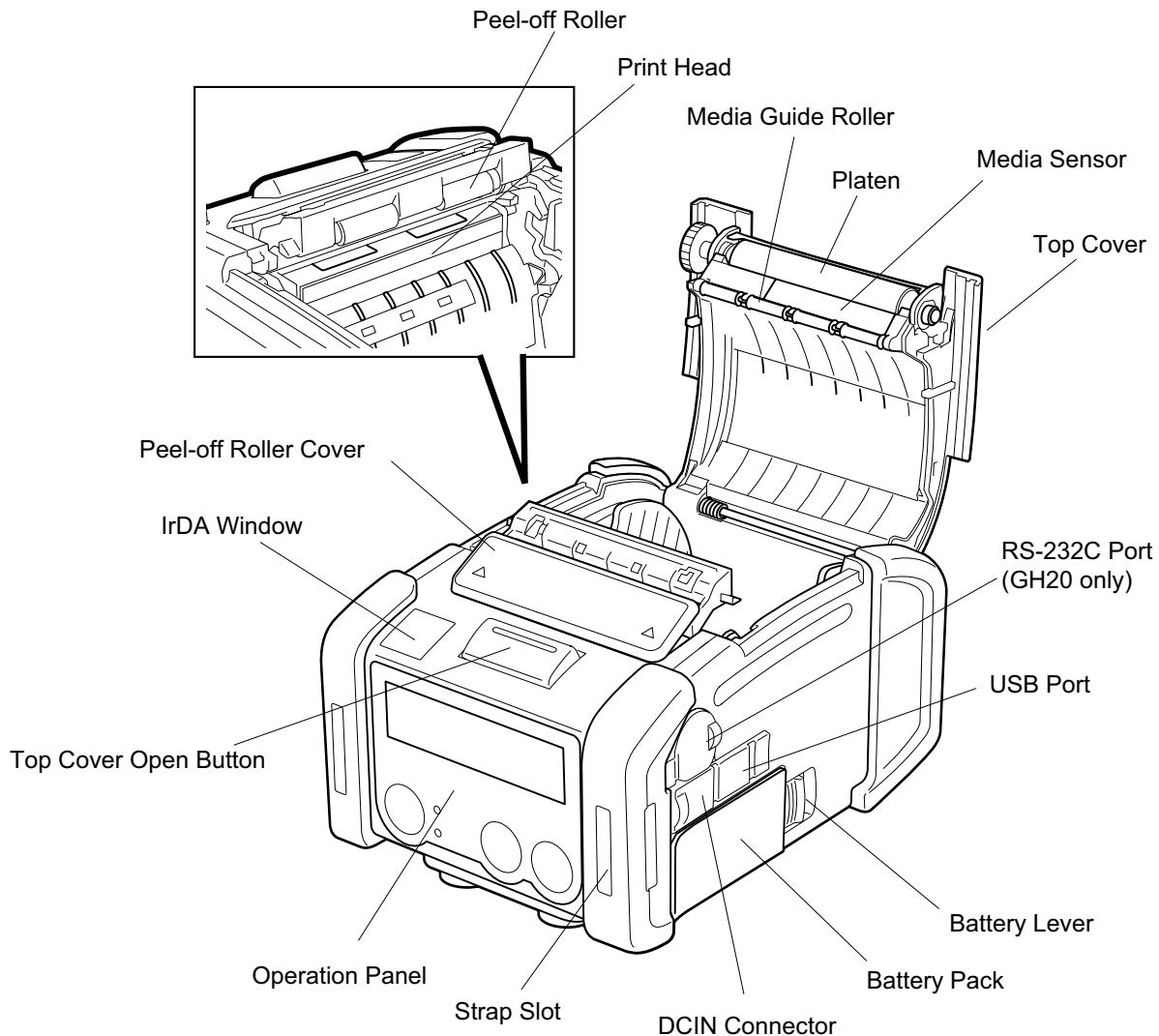
Remove any dirt or residual glues from the media outlet with a cotton swab slightly moistened with absolute ethyl alcohol.

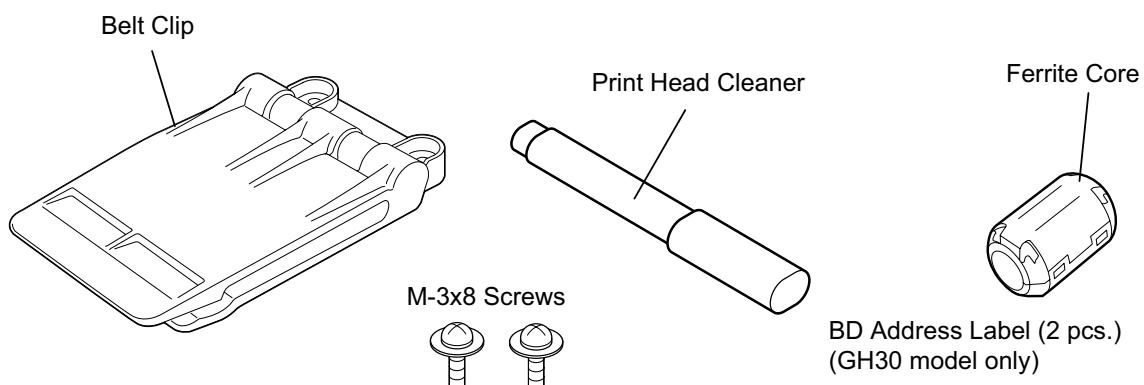
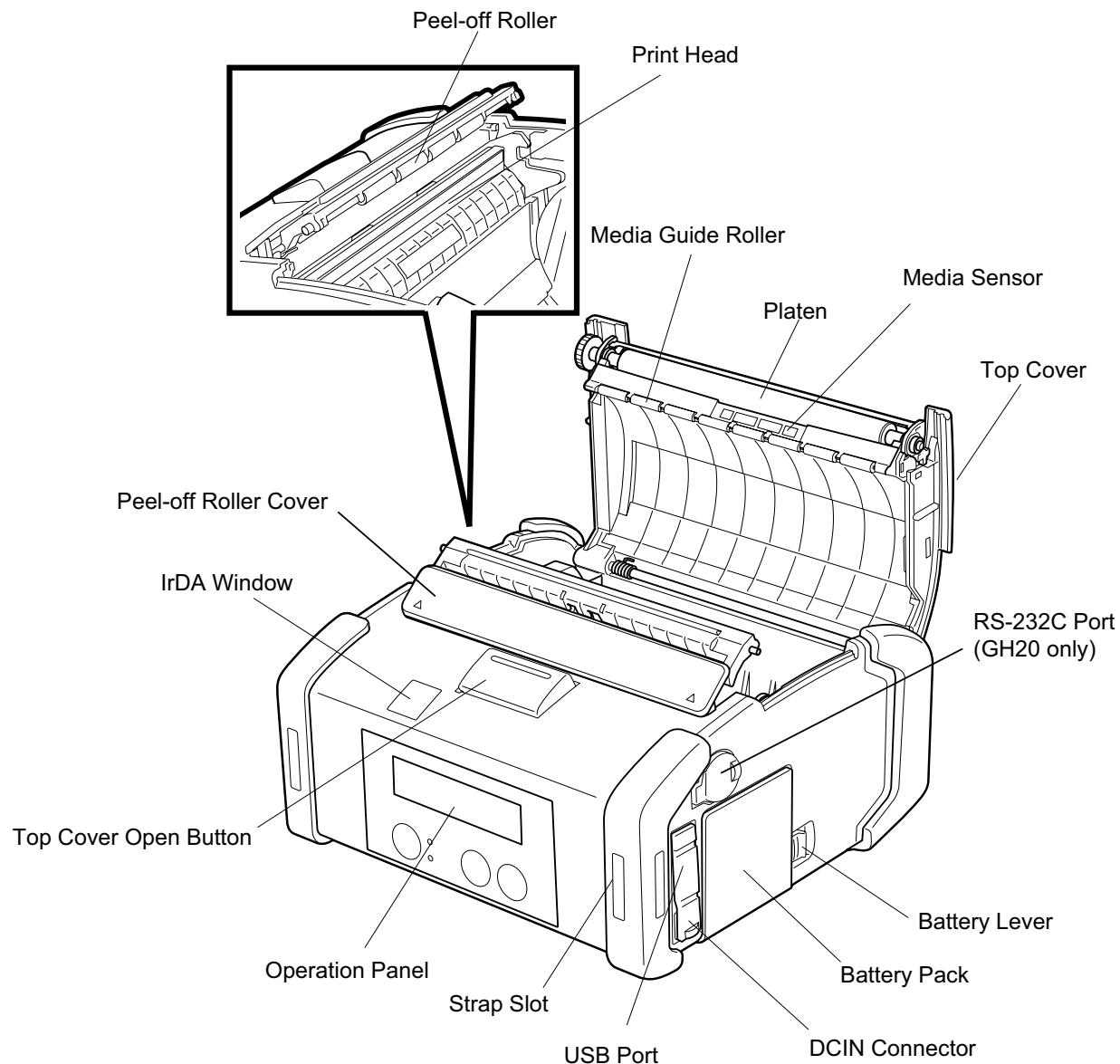
When linerless labels are used, wipe off dirt of residual glues from the Top Cover or Media Outlet each time one or two media rolls are used up.



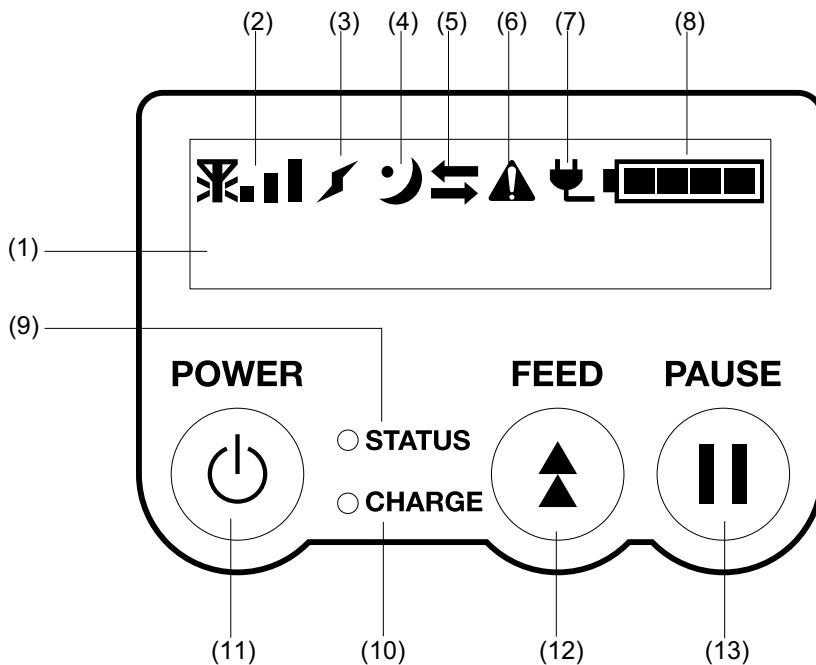
Part Names

B-EP2DL Series





Operation Panel Functions



NOTE:
Do not touch the Operation panel with a sharp object, as the surface of the Operation panel is easily damaged.

No.	Name/Icon	Function/Usage	
(1)	LCD Message	Upper line: Icons indicating the printer statuses, such as the radio intensity, battery level, etc. are displayed. Lower line: Printer status is indicated in alphanumerals or symbols.	
		ON LINE	The printer is ready for an issue command from the host.
		PAUSE	The printer is in pause state. When the printer is paused during printing, the number of unprinted labels is displayed.
		COVER OPEN	The top cover is open.
		LBL PRESENT ****	The printer is waiting for the printed label to be removed from the media outlet. "****" indicates the number of unprinted labels.
		WAITING(XXXX)	The printer is waiting for a recovery of the battery voltage or temperature decrease of the print head or motor.
(2)	Radio intensity	Indicates the radio intensity in 4 levels (GH40 only)	
(3)	Connection	Indicates an access point connection status (GH40 only)	
(4)	Sleep	Displayed while the printer is in the power save mode.	
(5)	Transmission	Indicates data transmission status.	
(6)	Error	Displayed when an error occurred on the printer.	
(7)	External power source	Displayed when the printer is charged with an optional device.	
(8)	Battery level	Indicates the battery level in 5 levels.	
(9)	STATUS lamp	Lights or blinks in green, red, or orange to indicate the printer status. • Lights up in green: Normal state • Lights up in orange: Near a low-battery state (Operable) • Lights up in red: Low-battery state • Blinks in green or orange: Communicating or internal processing is in progress or a printed label is waiting to be removed. • Blinks in red: Error state	

No.	Name/Icon	Function/Usage
(10)	CHARGE lamp	Lights up in orange while the battery pack is charged and goes out when the battery charge is completed.
(11)	[POWER] button	<p>Turns on or off the printer.</p> <p>How to turn on the printer While the printer is off, hold down the POWER button for a few seconds. When “ONLINE” is displayed on the LCD, the printer is ready.</p> <p>How to turn off the printer Hold down the POWER button until the LCD goes off.</p>
(12)	[FEED] button	Feeds media or reprints a previously printed data. Function of the [FEED] button differs depending on the issue mode.
(13)	[PAUSE] button	Temporarily stops media issue or restarts printing. Used to recover the printer after clearing an error.

Loading a battery pack

WARNING!

1. If the battery pack leaks liquid or gives out smoke or bad smell, immediately stop using it and keep it away from fire. Failure to do this may cause explosion or combustion.
2. In the United States, used lithium ion batteries should be returned to the store where you bought the machine. (USA only)
3. **LITHIUM ION BATTERY DISPOSE OF PROPERLY**
Caution: Do not handle damaged or leaking lithium ion battery.
4. To avoid injury, be careful not to drop the battery pack on your foot.

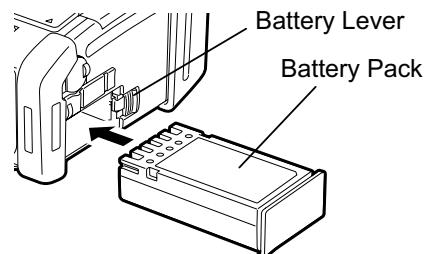
Pushing aside the Battery Lever with the Battery Pack, insert the Battery Pack into the printer to the bottom. The Battery Pack is locked by the Battery Lever.

Be careful of the orientation of the Battery Pack.

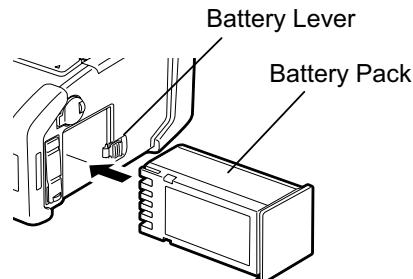
NOTE:

- Be sure to use a battery pack designed and manufactured for use with the specific model.
B-EP2DL series: B-EP802-BT-QM-R
B-EP4DL series: B-EP804-BT-QM-R
- When unpacked, the battery level of the supplied Battery Pack is not full. Please charge the Battery Pack with an optional Battery Charger or load the Battery Pack in the printer and connect an optional adapter before using it.

◆ Single-slot Battery charger: B-EP800-CHG-QM-R
◆ 6-slot Battery Charger: B-EP800-CHG6-QM-R
◆ AC Adapter: B-EP800-AC-QM-R
◆ Cigarette lighter adapter: B-EP802-DC12-QM-R
◆ DC adapter: B-EP800-DC48-QM-R



[B-EP2DL Series]



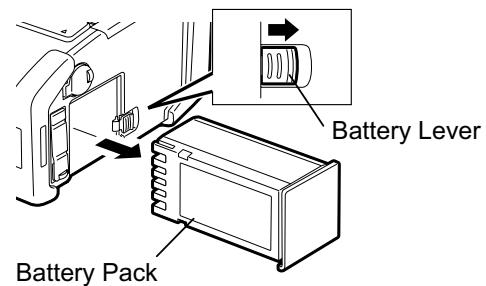
[B-EP4DL Series]

CAUTION!

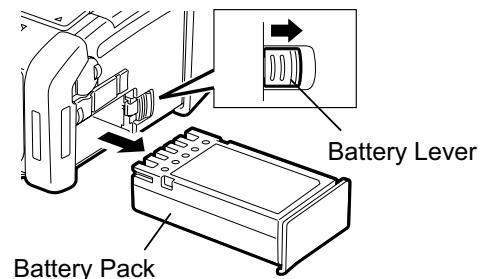
DO NOT CONNECT any device other than the above to the printer.

Removing a battery pack

Slide the Battery Lever in the direction of the arrow, and remove the Battery Pack from the printer.



[B-EP2DL Series]



[B-EP4DL Series]

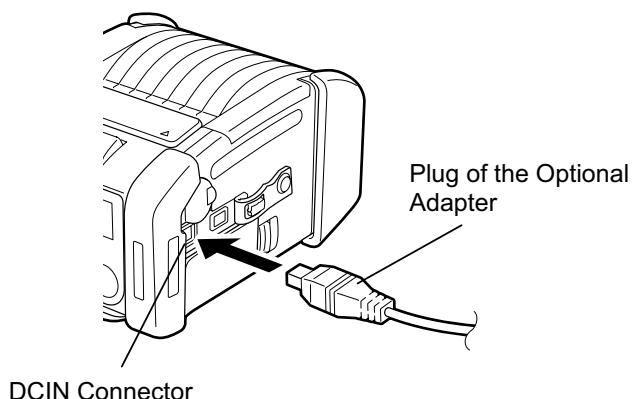
Charging the Battery Pack with an Optional Adapter

When charging the battery pack in the printer using an optional AC Adapter, cigarette lighter adapter, or DC adapter, insert the plug of the adapter into DCIN Connector of the printer.

NOTE:

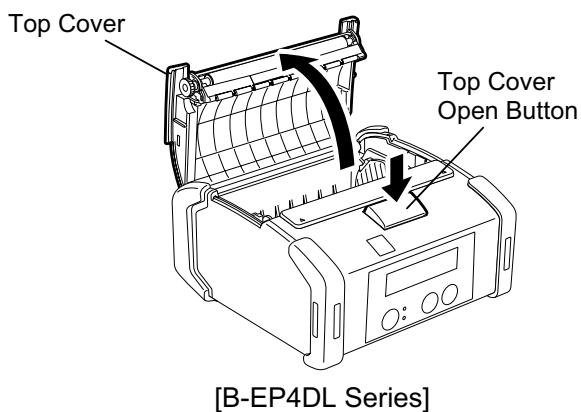
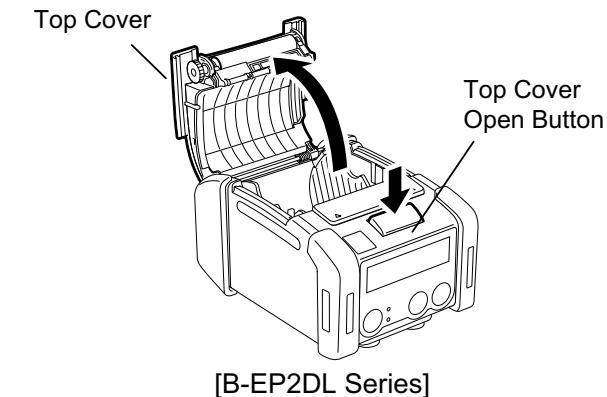
For details, please refer to the Owner's Manual of respective optional adapters.

When using an optional battery charger to charge the battery packs, please refer to the Owner's Manual of respective models of battery charger.



Loading the Media

1. Press the Top Cover Open Button to open the Top Cover.

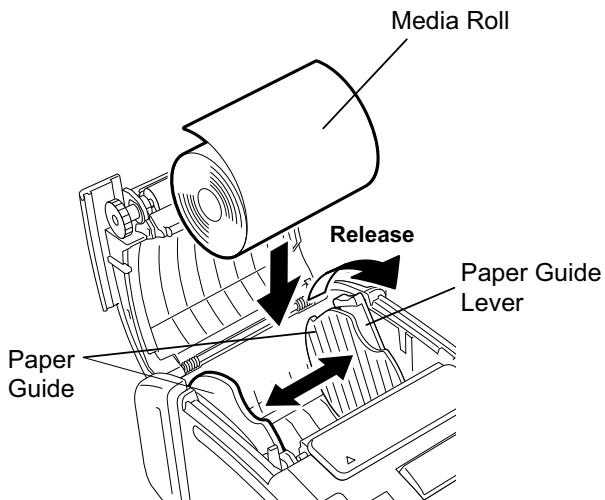


2. Move the Paper Guide Lever toward the Operation Panel and the Paper Guides outward.

NOTE:

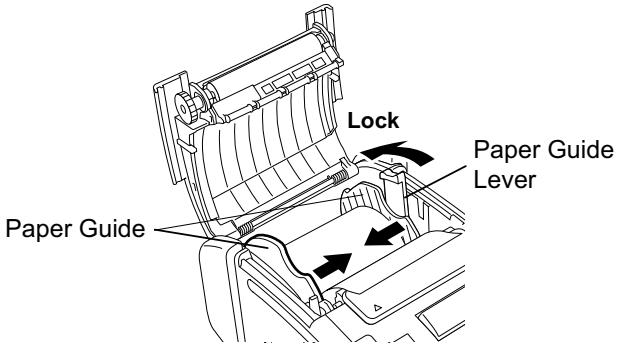
Do not move the Paper Guides without unlocking the Paper Guide Lever. Doing this may break the Paper Guide.

3. Place a media roll in the printer. Only outside wound media is acceptable.

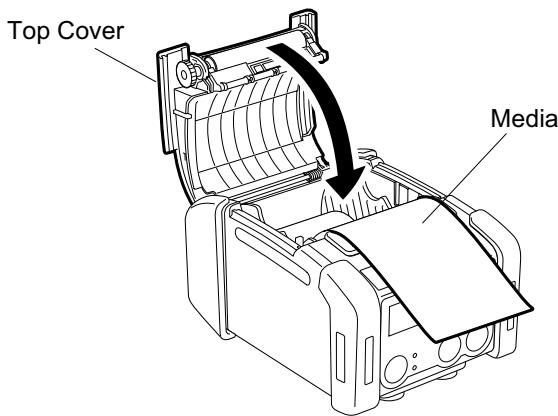


4. Adjust the Paper Guides to the media roll width.

5. Push back the Paper Guide Lever to lock the Paper Guides.



6. Pull the top edge of the media toward the Operation Panel, and close the Top Cover removing slack of the media.



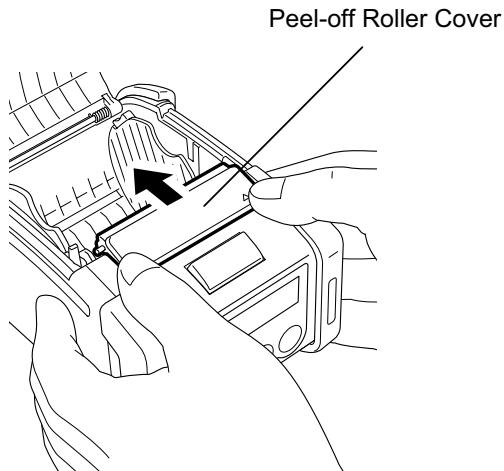
NOTE:

- Please use TOSHIBA TEC approved media only. We are not responsible for any print result caused by use of other media
- When you order media, please contact the nearest TOSHIBA TEC representative.

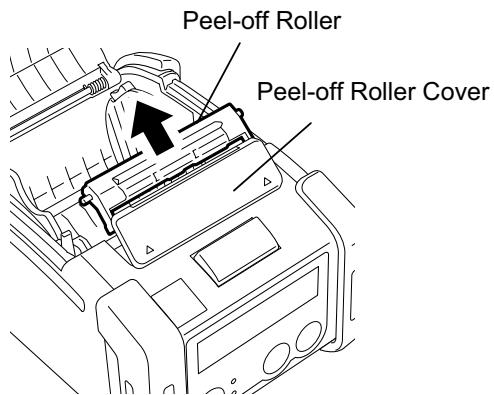
Before using a peel-off unit

When issuing labels in the peel-off mode, pull out the peel-off roller before loading a label roll.

1. Open the Top cover, and push the Peel-off Cover by the ▲ marks with your thumbs in the direction of the arrow.

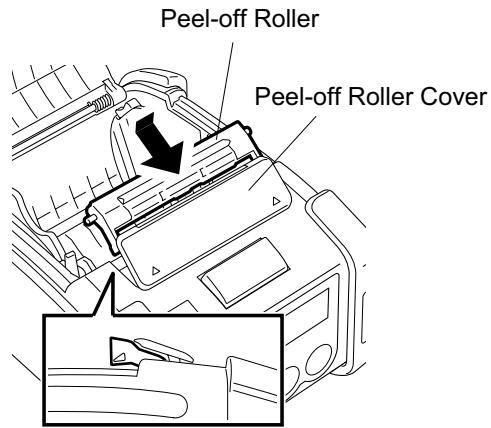


2. Pull out the Peel-off Roller until the both edges completely come out with a click
Refer to "Loading the Media" on the previous page and set a label roll.

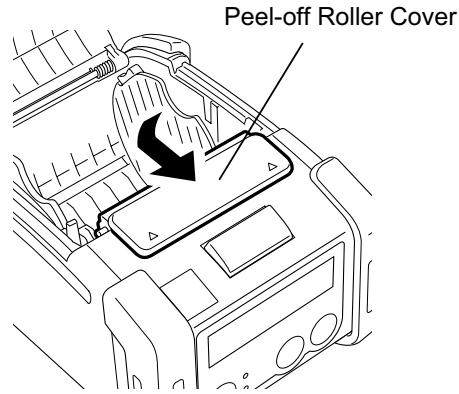


■ How to put back the Peel-off Roller

1. Slightly hold down the Peel-off Roller Cover, and insert the Peel-off Roller under the Peel-off Roller Cover.



2. Hold down the Peel-off Roller Cover, push it into the printer in the direction indicated by the arrow until it clicks.



NOTES:

1. For the B-EP4DL series, DO NOT PULL the center of the Peel-off roller hard. Doing so may break the Peel-off roller.
2. Do not forcibly pull out the Peel-off roller or push it into the printer, otherwise the Peel-off roller may break.

How to attach the accessories

CAUTION!

1. Care should be taken not to drop the printer when securing it to your waist or slinging it over your shoulder.
2. For fixing the printer to your belt, the belt width should be 40 mm or less. Use of the other belts may cause the printer to drop.

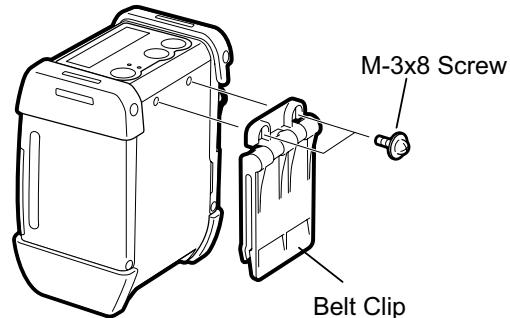
■ Belt Clip

When you use the printer fixing to your belt, secure the supplied Belt Clip to the printer back.

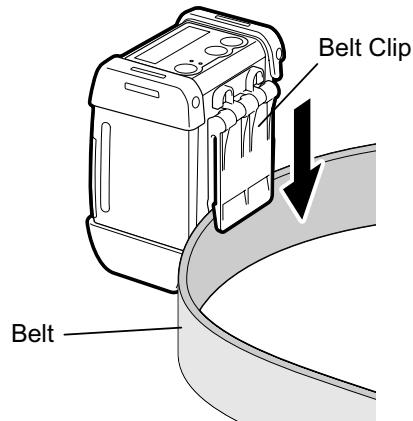
1. Secure the Belt Clip to the printer back with the two screws.

NOTE:

Only use the supplied screw to secure the Belt Clip. Use of other screw may damage the printer inside.



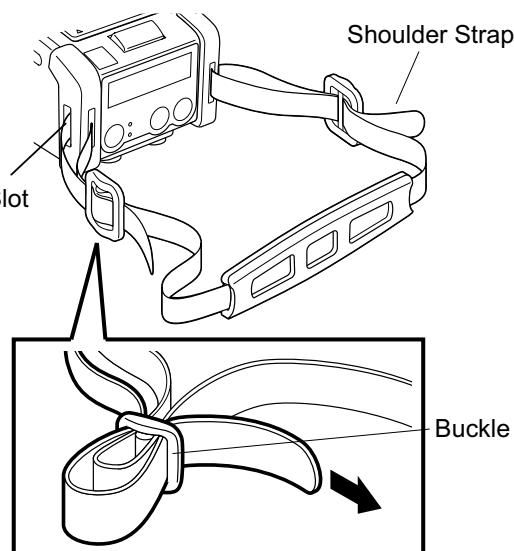
2. Fasten the Belt Clip to your belt.



■ Shoulder Strap (Option)

Use the following procedure to fasten an optional shoulder strap (B-EP900-SS-QM-R) to the printer.

1. Pass either end of the Shoulder Strap through the Strap Slot of the printer, as shown in the figure below.
2. Pass the end of the Shoulder Strap through the buckle. Slide the buckle to adjust the Shoulder Strap length.
3. Do the same to the other end of the Shoulder Strap.



■ Carry case (Option)

A carry case exclusively for the printer is available as an option.

B-EP2DL Series: B-EP902-CC-QM-R
B-EP4DL Series: B-EP904-CC-QM-R

Put the printer into the Carry Case using the following procedure.

1. Turn off the printer.
2. Put the printer into the Carry Case in the orientation indicated by the illustration on the right.

NOTE:

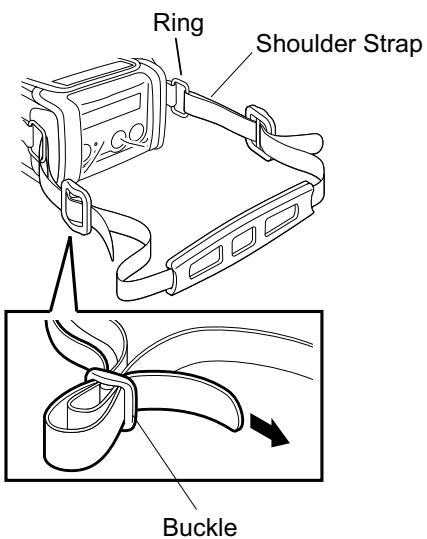
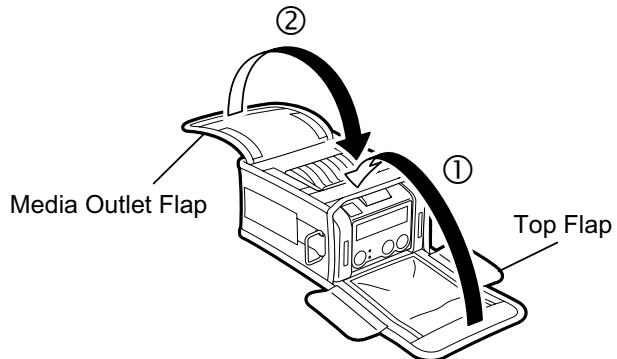
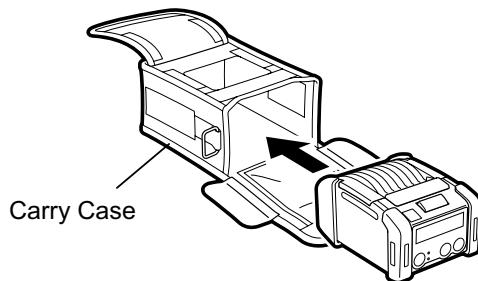
Before putting the printer into the Carry Case, remove the Belt Clip, if it has been attached.

3. Close the Media Outlet Flap and the Top Flap of the Carry Case.

NOTE:

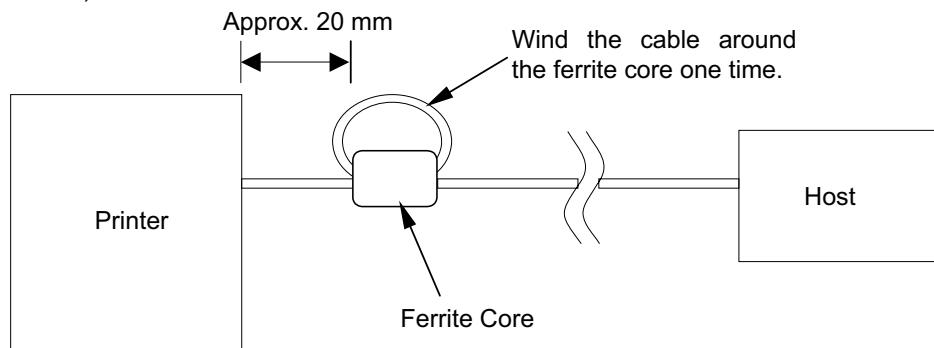
When issuing the media, please be sure to open the Media Outlet Flap. Failure to do this may cause a paper jam.

4. Pass either end of the Shoulder Strap supplied with the Carry Case through the ring of the Carry Case.
5. Pass the end of the Shoulder Strap through the buckle. Slide the buckle to adjust the Shoulder Strap length.
6. Do the same to the other end of the Shoulder Strap.



Data Transmission

When connecting a USB cable or an RS232C cable to the printer, put the ferrite core supplied with the printer on the cable, as shown below.



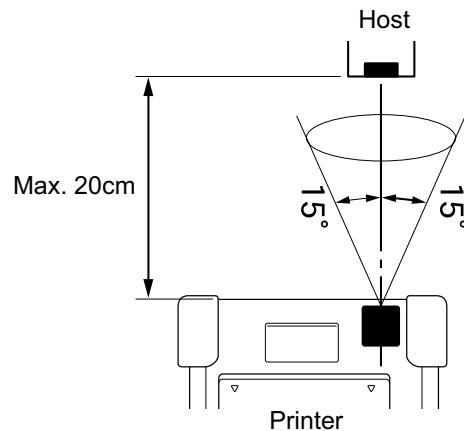
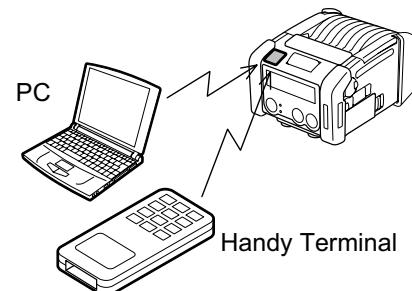
■ IrDA

1. Place the printer close to the host so that their IrDA windows face each other within 20 cm distance.
2. Turn on the printer and the host, and send data from the host to the printer.

NOTE:

While communicating, avoid location where the IrDA window is subjected to direct sunlight. A communication failure may occur.

- To communicate with the host via IrDA, it is required to configure the printer settings on the host.
- Communicable distance and angle is shown in the figure on the right. Note that this performance is obtained under 1000 lux or less of fluorescent lamp light.

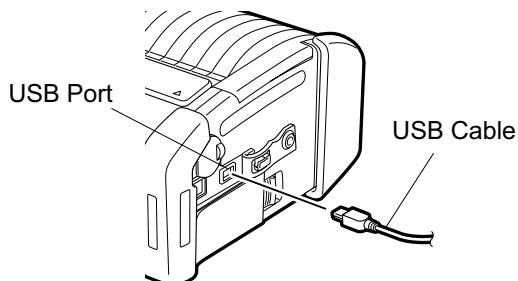


■ USB

1. Turn on the host and start the system.
2. Turn on the printer and connect a USB cable to the printer.
3. Connect the USB cable to the host.
4. Send data from the host to the printer.

NOTE:

- For details of the interface cable, please consult the nearest TOSHIBA TEC representative.
- When disconnecting the USB cable, please follow the instruction of the system on the host.

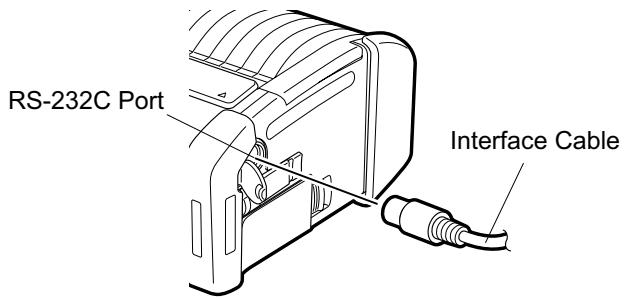


■ Serial (RS-232C) (GH20 model only)

1. Connect the serial interface cable to the RS-232C port on the printer.
2. Connect the other end of the serial interface cable to the host.
3. Turn on the printer and the host, and send data from the host to the printer.

NOTE:

For details of the interface cable, please consult the nearest TOSHIBA TEC representative.



■ Wireless (GH30/GH40 model only)

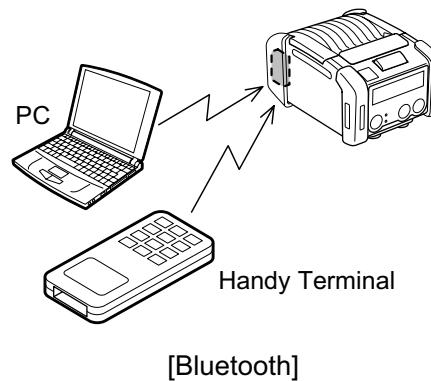
1. In the case of Bluetooth, place the printer within 3 m from the host.
In the case of wireless LAN, place the printer within a wireless coverage area.
2. Turn on the printer and the host, and send data from the host to the printer.

NOTE:

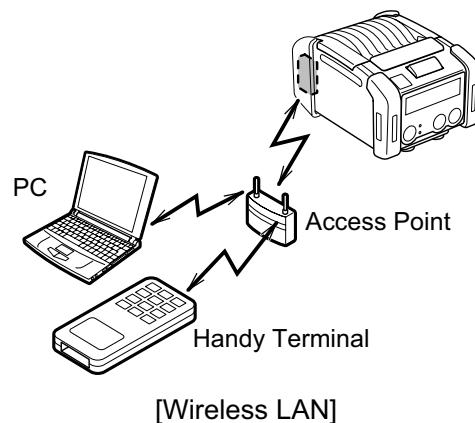
- Please be sure to read "Precautions for Handling of Wireless Communication Devices" before operating the printer.
- Confirm that there is no obstacles between the printer and the host. Obstacles may cause a communication failure.

The radio connectivity is affected by the operating environment. Especially, metal obstacles, metal powder, or locations enclosed by metal walls may prevent proper communication.

For the installation location of access points, please consult the nearest TOSHIBA TEC representative.



[Bluetooth]



[Wireless LAN]

Troubleshooting

When a problem occurs during operation, please check the following troubleshooting guide and take corrective action.

If you cannot solve a problem with the following solutions, do not attempt to repair it by yourself. Turn off the printer, remove the battery pack, then contact a TOSHIBA TEC service representative for assistance.

If an error message is displayed.

When an error message is displayed, follow the respective instruction, then press the [PAUSE] button. The error will be cleared.

Error Message	Cause	Solution
COMMS ERROR	A parity error or framing error has occurred during communication by RS-232C.	Turn off the [POWER] button, then back to on. Send data from the host to the printer again. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.
PAPER JAM ****	The media is not loaded properly.	Load the media properly.
	The media is jammed in the printer.	Remove the jammed media, and load the media properly. Press the [PAUSE] button.
	The media is not fed properly.	Load the media properly and press the [PAUSE] button.
	The reflective sensor does not detect black marks .	Load the media properly.
	The transmissive sensor does not detect gaps between labels.	Load the media properly. If the problem recurs, set a threshold again.
NO PAPER ****	The printer ran out of media.	Load a new media roll and press the [PAUSE] button.
COVER OPEN ****	The top cover is opened.	Close the top cover.
HEAD ERROR	A part of the print head element is broken.	Turn off the printer and contact TOSHIBA TEC service representative for replacement of the print head.
FLASH WRITE ERR.	A flash memory write error occurred.	Turn off the [POWER] button, then back to on. Send data from the host to the printer again. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.
FORMAT ERROR	A flash memory format error occurred.	Turn off the [POWER] button, then back to on. Send data from the host to the printer again. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.

Error Message	Cause	Solution
FLASH MEM FULL	The flash memory has insufficient area for storing data.	Turn off the [POWER] button, then back to on. Send data from the host to the printer again. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.
LOW BATTERY	Remaining battery capacity is low.	Turn off the printer, and replace the battery pack with a fully charged one.
EXCESS HEAD TEMP	The print head temperature reached the upper limit of the operating temperature.	Stop printing and wait until the printer automatically restores. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.
AMBIENT TEMP ERR	The ambient temperature reached the upper limit of the operating temperature.	Stop printing until the ambient temperature falls within the printer's operating temperature range.
BATT. TEMP ERROR	The battery is extremely hot.	Turn off the printer, disconnect the power adapter if connected, and wait until the battery temperature falls within the printer's operating temperature range.
HIGH VOLT. ERROR	The battery voltage is abnormal.	Turn off the printer, remove the battery, reload it, and turn on the printer again. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.
CHARGE ERROR	An error was detected while charging the battery.	It could be the end of battery life. Replace the battery pack with a new one.
Command error example [PC001;0A00,0300,]	When a command error occurs, up to 16 digits of alphanumeric or symbol are displayed on the upper line of the LCD.	Turn off the [POWER] button, then back to on. Send data from the host to the printer again. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.
Other error messages	A hardware or software failure occurs.	Turn off the [POWER] button, then back to on. If the problem recurs, please turn off the power and contact TOSHIBA TEC service representative.

****: The number of unprinted labels 1 to 9999 (in units of label)

When the printer does not operate properly

In the case of the following symptoms, please check the respective points and take corrective action.

Symptom	Point to check (Cause)	Solution
The printer does not turn on by pressing the POWER switch.	The battery pack is not loaded correctly.	Load a fully charged battery pack correctly.
Fully charged battery is loaded but the operating time is short.	The battery life is expired.	Load a fully charged new battery pack correctly.
The printer cannot communicate via IrDA.	The printer is not turned on.	Turn on the printer.
	Distance to the host is too far. .	Bring the printer close to the host so that their IrDA windows face each other within 10cm.
	Angle of the IrDA window is not proper.	Move the printer so that the IrDA window face that of the host.
	Direct sunlight is coming into the IrDA window	Avoid direct sunlight.
	IrDA window is dirty.	Clean the IrDA window.
	Serial interface cable is connected. (GH20 only)	Disconnect the RS-232C cable from the printer.

Symptom	Point to check (Cause)	Solution
The printer cannot communicate via IrDA.	The printer is communicating via wireless communication. (GH30/GH40 only)	Terminate the wireless communication.
	Communication conditions are incorrect.	Set the communication conditions correctly
	Issue mode is incorrect.	Select a correct issue mode.
	Transmission speed is incorrect.	Send data at correct transmission speed.
The printer cannot communicate via USB.	The printer is not turned on.	Turn on the printer.
	Serial interface cable is connected. (GH20 only)	Disconnect the RS-232C cable from the printer.
	The printer is communicating via wireless communication. (GH30/GH40 only)	Terminate the wireless communication
	Issue mode is incorrect.	Select a correct issue mode.
The printer cannot communicate via serial interface (GH20 only)	The printer is not turned on.	Turn on the printer.
	The interface cable is not connected properly.	Completely connect the interface cable.
	Issue mode is incorrect.	Select a correct issue mode.
	Communication conditions are improper.	Set the communication conditions properly.
The printer cannot communicate via Bluetooth. (GH30 only)	The printer is not turned on.	Turn on the printer.
	Distance to the host is too far.	Bring the printer close to the host within 3 m.
	The printer is used in a location where it is subjected to noise or interference.	Avoid such location.
	The printer address is not correctly set on the host.	Correctly set the print address on the host.
	Issue mode is incorrect.	Select a correct issue mode.
The printer cannot communicate via wireless LAN. (GH40 only)	The printer is not turned on.	Turn on the printer.
	Distance to the host is too far.	Bring the printer within a wireless coverage area.
	Obstacles block the radio wave.	Use the printer in a location with no obstacles.
	The printer is used in a location where it is subjected to noise or interference.	Avoid such location.
	The printer address is not correctly set on the host.	Correctly set the print address on the host
	Channel setting for the access point or host is incorrect.	Avoid using a channel which interferes with adjacent access points.
	Issue mode is incorrect.	Select a correct issue mode.
Printout is too light.	The print head is dirty.	Clean the print head.
	The media is not loaded properly.	Load the media properly.
	Deteriorated media is used.	Load a new media roll.
	The media is not a TOSHIBA TEC approved one	Use TOSHIBA TEC approved media.
The printer received print data but does not print.	The STATUS lamp is lit or blinking.	Clear the error
	The media is not loaded properly.	Load the media properly.

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